

-	12	("4324588" "4581558" "5440198" "5448130" "5461210" "5497045" "5514929" "5578895" "5736809" "5793793" "5869921" "5894186").PN.	USPAT	2003/11/24 15:02
-	27	"noble metal tip" and 313/141.ccls.	USPAT; EPO; JPO; DERWENT USPAT	2003/11/24 16:12
-	2	("3958144" "3967149").PN.	USPAT	2003/11/24 15:40
-	29	"noble metal" and "spark plug"	USOCR	2003/11/24 15:52
-	10	(US-6307307-\$ or US-6229253-\$ or US-6095124-\$ or US-6071163-\$ or US-4122366-\$ or US-3958144-\$ or US-6078129-\$ or US-6304022-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.	USPAT; JPO	2003/11/24 18:25
-	5	(US-2783409-\$ or US-2406966-\$ or US-2476208-\$ or US-2391455-\$ or US-2239561-\$).did.	USOCR	2003/11/24 18:25
-	8	((US-6307307-\$ or US-6229253-\$ or US-6095124-\$ or US-6071163-\$ or US-4122366-\$ or US-3958144-\$ or US-6078129-\$ or US-6304022-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.) and (iridium ir)	USPAT; EPO; JPO; DERWENT	2003/11/24 18:25
-	10	(US-3958144-\$ or US-4122366-\$ or US-6071163-\$ or US-6078129-\$ or US-6095124-\$ or US-6229253-\$ or US-6304022-\$ or US-6307307-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.	USPAT; JPO	2004/05/08 17:50
-	5	(US-2239561-\$ or US-2476208-\$ or US-2406966-\$ or US-2783409-\$ or US-2391455-\$).did.	USOCR	2004/05/08 17:50
-	5	((US-3958144-\$ or US-4122366-\$ or US-6071163-\$ or US-6078129-\$ or US-6095124-\$ or US-6229253-\$ or US-6304022-\$ or US-6307307-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.) and laser	USPAT	2004/05/08 17:50
-	5	((US-3958144-\$ or US-4122366-\$ or US-6071163-\$ or US-6078129-\$ or US-6095124-\$ or US-6229253-\$ or US-6304022-\$ or US-6307307-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.) and laser	USPAT; EPO; JPO; DERWENT	2004/05/08 17:51
-	1295	313/118,141.ccls.	USPAT; EPO; JPO; DERWENT	2004/05/15 03:25
-	115	"spark plug" and (S sulfur) and (Si silicon) and (C carbon) and (Mn manganese) and (P phosphorus)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:25
-	18	"spark plug".ti. and (S sulfur) and (Si silicon) and (C carbon) and (Mn manganese) and (P phosphorus)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:25
-	28	"spark plug" and shell and (S sulfur) and (Si silicon) and (C carbon) and (Mn manganese) and (P phosphorus)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:25
-	9	"spark plug" and (weld\$3 with depth) and iridium	USPAT; EPO; JPO; DERWENT	2004/05/15 03:25
-	331	313/118,141.ccls. and ground	USPAT; EPO; JPO; DERWENT	2004/05/15 03:26
-	391	313/118,141;445/7.ccls. and ground	USPAT; EPO; JPO; DERWENT	2004/05/15 03:26
-	128	(313/118,141;445/7.ccls. and ground) and (iridium ir)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:26

-	1590	313/118,141;445/7.ccls.	USPAT; EPO; JPO; DERWENT USOCR	2004/05/15 03:26
-	39	313/118,141;445/7.ccls. and (iridium ir) and (platinum pt)		2004/05/15 03:26
-	10	313/118,141;445/7.ccls. and ground same weld\$3 same depth	USPAT; EPO; JPO; DERWENT	2004/05/15 03:26
-	40	313/118,141;445/7.ccls. and ground same weld\$3 same mm	USPAT; EPO; JPO; DERWENT	2004/05/15 03:26
-	31	(313/118,141;445/7.ccls. and ground same weld\$3 same mm) not (313/118,141;445/7.ccls. and ground same weld\$3 same depth)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:26
-	293	"spark plug" and laser near2 weld\$	USPAT; EPO; JPO; DERWENT	2004/05/15 03:27
-	294	"spark plug" and laser near2 weld\$	USPAT; EPO; JPO; DERWENT	2004/05/15 03:27
-	130	"noble metal chip" and "spark plug"	USPAT; EPO; JPO; DERWENT	2004/05/15 03:27
-	162	"spark plug" and laser near2 weld\$ with (ir electrode pt iridium platinum)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:27
-	207	"spark plug" and (laser near2 weld\$) and weld\$ with (ir electrode pt iridium platinum)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:27
-	68	"spark plug" and (laser near2 weld\$) and weld with (ir electrode pt iridium platinum)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:27
-	273	"spark plug" and (cu copper) with core and (nickel ni)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:28
-	42	"spark plug" and (cu copper) with core and (nickel ni)	USOCR	2004/05/15 03:28
-	35	"spark plug" and (cu copper) with core and (nickel ni) and corros\$ and heat and (ir iridium) and (pt platinum)	USPAT; EPO; JPO; DERWENT	2004/05/15 03:28
-	77	"spark plug" and (cu copper) with core and (nickel ni) and corros\$ and heat	USPAT; EPO; JPO; DERWENT	2004/05/15 03:28
-	30	"noble metal tip" and 313/141.ccls.	USPAT; EPO; JPO; DERWENT	2004/05/15 03:28
-	6	(ground earth) with laser with weld\$3 with shell	USPAT; EPO; JPO; DERWENT	2004/05/15 03:50
-	29	(ground earth) with laser with weld\$3 and shell	USPAT; EPO; JPO; DERWENT	2004/05/15 03:50
-	147	(ground earth) with laser with weld\$3	USPAT; EPO; JPO; DERWENT	2004/05/15 04:20
-	14	"spark plug" and (ground earth) with laser with shell	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 20:47
-	49	(ground earth) with laser with shell	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 19:43
-	4.	("4144474" "4853582" "5497045" "6111345").PN.	USPAT	2004/05/16 19:35

-	118	(ground earth) with laser and spark and plug	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 19:44
-	104	((ground earth) with laser and spark and plug) not ((ground earth) with laser with shell)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 19:52
-	104	((ground earth) with laser and spark and plug) not ((ground earth) with laser with shell) and laser and (ground earth)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 19:52
-	3438	(fe iron) with laserwith (platinum pt) and "spark plug"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 20:33
-	20	((((ground earth) with laser and spark and plug) not ((ground earth) with laser with shell) and laser and (ground earth)) and laser with (platinum pt)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 20:34
-	3	("spark plug" and (ground earth) with laser with (shell housing)) not ("spark plug" and (ground earth) with laser with shell)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 20:47
-	17	"spark plug" and (ground earth) with laser with (shell housing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 20:55
-	3	"spark plug" and (ground earth) with laser with (hous\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 20:56
-	418	laser with weld\$4 and "spark plug"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 21:08
-	17	(laser with weld\$4 and "spark plug") and laser with advantag\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 21:13
-	11	(laser with weld\$4 and "spark plug") and laser with prefer\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 21:32
-	4	("4700103" "5461276" "5574329" "6078129").PN.	USPAT	2004/05/16 21:20
-	3	(laser with weld\$4 and "spark plug") and laser with favor\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 21:34
-	5	(laser with weld\$4 and "spark plug") and laser with desir\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/16 21:34

L Number	Hits	Search Text	DB	Time stamp
-	8	(US-6071163-\$ or US-6095124-\$ or US-6229253-\$ or US-6307307-\$ or US-3958144-\$ or US-4122366-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.	USPAT; JPO	2003/06/02 04:58
-	5	(US-2391455-\$ or US-2239561-\$ or US-2406966-\$ or US-2476208-\$ or US-2783409-\$).did.	USOCR	2003/06/02 04:58
-	2	((US-6071163-\$ or US-6095124-\$ or US-6229253-\$ or US-6307307-\$ or US-3958144-\$ or US-4122366-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.) and depth	USPAT; EPO; JPO; DERWENT	2003/06/02 05:01
-	2	((US-2391455-\$ or US-2239561-\$ or US-2406966-\$ or US-2476208-\$ or US-2783409-\$).did.) and depth	USOCR	2003/06/02 05:18
-	5	((US-6071163-\$ or US-6095124-\$ or US-6229253-\$ or US-6307307-\$ or US-3958144-\$ or US-4122366-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.) and mm	USPAT; EPO; JPO; DERWENT	2003/06/02 05:22
-	1	((US-6071163-\$ or US-6095124-\$ or US-6229253-\$ or US-6307307-\$ or US-3958144-\$ or US-4122366-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.) and mm and weld	USPAT; EPO; JPO; DERWENT	2003/06/02 05:22
-	4	((US-6071163-\$ or US-6095124-\$ or US-6229253-\$ or US-6307307-\$ or US-3958144-\$ or US-4122366-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.) and mm and weld\$3	USPAT; EPO; JPO; DERWENT	2003/06/02 05:27
-	0	((US-2391455-\$ or US-2239561-\$ or US-2406966-\$ or US-2476208-\$ or US-2783409-\$).did.) and mm and weld\$3	USOCR	2003/06/02 05:27
-	2	((US-2391455-\$ or US-2239561-\$ or US-2406966-\$ or US-2476208-\$ or US-2783409-\$).did.) and weld\$3	USOCR	2003/06/02 05:27
-	0	((US-2391455-\$ or US-2239561-\$ or US-2406966-\$ or US-2476208-\$ or US-2783409-\$).did.) and irridium	USOCR	2003/06/02 06:44
-	4	((US-2391455-\$ or US-2239561-\$ or US-2406966-\$ or US-2476208-\$ or US-2783409-\$).did.) and iridium	USOCR	2003/06/02 06:44
-	8	(US-6307307-\$ or US-6229253-\$ or US-6095124-\$ or US-6071163-\$ or US-4122366-\$ or US-3958144-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.	USPAT; JPO	2003/11/19 16:58
-	5	(US-2783409-\$ or US-2406966-\$ or US-2476208-\$ or US-2391455-\$ or US-2239561-\$).did.	USOCR	2003/11/19 15:14
-	1	((US-6307307-\$ or US-6229253-\$ or US-6095124-\$ or US-6071163-\$ or US-4122366-\$ or US-3958144-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.) and weld	USPAT; EPO; JPO; DERWENT	2003/11/19 15:14
-	6	((US-6307307-\$ or US-6229253-\$ or US-6095124-\$ or US-6071163-\$ or US-4122366-\$ or US-3958144-\$).did. or (JP-01180934-\$ or JP-63266046-\$).did.) and weld\$	USPAT; EPO; JPO; DERWENT	2003/11/19 15:14
-	1	"11324569"	USPAT; JPO	2003/11/19 16:46
-	2	"11-324569"	USPAT; JPO	2003/11/19 16:46
-	4	("4700103" "5461276" "5574329" "6078129").PN.	USPAT	2003/11/19 16:47
-	2	("2945293" "3119944").PN.	USPAT	2003/11/21 15:19